

Igneous Data Protection Solutions

Modern scale-out backup, archive, and cloud-tiering designed for unstructured file data

Igneous offers a modern scale-out approach to consolidated backup, archive, and cloud-tiering. Built to handle billions of files, hundreds of file systems, and petabytes of data, Igneous provides data management for unstructured file data, delivered as-a-Service. Utilizing cloud services and on-premises infrastructure designed for data-centric computing, Igneous delivers the industry's first secondary storage solution for massive file systems that offers both the convenience of storing data in your datacenter and the option to tier to cloud.



Igneous data protection solutions eliminate the challenge of managing disparate backup software, disk-to-disk (D2D) replication, and tape archives. While maintenance, updates, and troubleshooting are handled by Igneous through our Remote Management Platform, full usage metrics and activity notifications ensure that you have the system visibility you need.

Key Benefits

- As-a-service delivery.** Customers don't buy or manage hardware; instead, Igneous remotely monitors, troubleshoots, and even performs software updates on its appliances installed in customer datacenters. Igneous' remote management and fail-in-place architecture dramatically reduce management overhead for enterprise IT.
- Scale-out.** On-premises appliances integrate highly scalable backup and archive software with scale-out index and object stores to manage billions of files.
- High performance.** Igneous performs highly parallel data movement, optimized for scale-out primary file systems like NetApp, Dell EMC Isilon, Pure Storage FlashBlade, and Qumulo. Dynamic throttling eliminates impact to users or applications accessing the primary storage. As such, backups can run continuously without the concept of a "backup window" where users and applications can't otherwise access data.
- Search.** A key problem with enterprise network attached storage (NAS) is not knowing what's there. The Igneous scale-out index store provides integrated search and discovery of all file data on primary, secondary, and cloud storage tiers.
- Cloud integration.** To constrain datacenter footprint and provide long-term retention, Igneous automates tiering or replication to other Igneous appliances leading public cloud providers like AWS and Microsoft Azure and Google Cloud.

What We Provide



Backup

Highly parallel, policy-driven backup for network attached storage minimizes impact on your primary tier while eliminating backup windows.



Archive

Powerful, policy-based data movement and an intuitive File Insights dashboard redefine the archive experience.



Cloud-tiering

Policy-based workflows make it easy to automatically tier data to cloud.

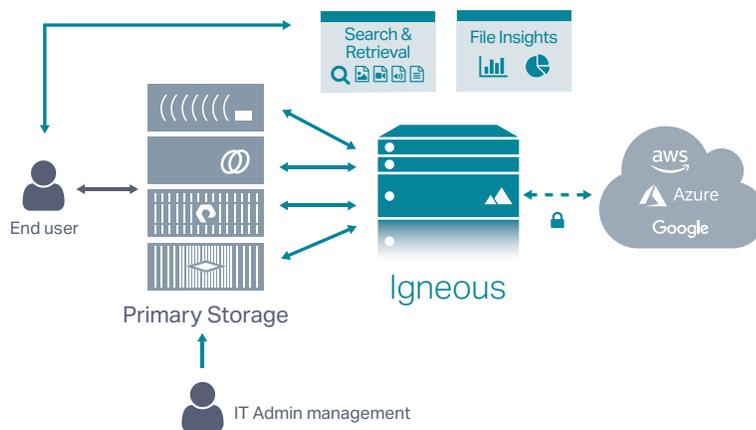
All Offered As-a-Service:

Our remote management platform handles all monitoring, diagnostics, failure management, and software updates. We take care of the logistics so you can focus on your business.



Integrated Solution:

- Integrated scale-out hardware and software managed remotely by Igneous
- Built-in scale-out backup, archive, and cloud-tiering software that integrates with existing NAS
- Built-in scale-out object and index store for on-premises secondary storage
- Cloud tiering integrates with customer-provided public cloud accounts (AWS, Microsoft Azure, Google Cloud)
- Igneous Remote Management Platform handles remote monitoring, troubleshooting, and software updates
- Fail-in-place software and hardware architecture enables continuous uptime and protection
- Non-disruptive updates run without interrupting backup jobs
- API-driven architecture for use with custom and third party applications (S3 API supported for direct access to underlying object storage)



Backup, Archive and Cloud-Tiering Workflow

Backup Features:

- API integration with NetApp (7 Mode and Cluster Mode), Dell EMC Isilon, Pure Storage FlashBlade, and Qumulo to provide:
 - Read-consistency via snapshots
 - Automated permissions provisioning
 - Automatic discovery of exports
- Support other NAS systems through standard protocol support
- SMB, NFS, object and multi-protocol support
- Dynamic throttling via latency aware backups
- Highly parallel data movement and scan operations
- Point-and-click policy-driven backups
- Baseline and then Incremental Forever
- Virtual Full provides complete view of data at any point in time
- Search to recover backup data via direct download, or restore to primary NAS
- Restore back to NAS with all metadata and file permissions intact
- Write-Once Read-Many (WORM)
- End-to-end compression
- Immutable objects with versioning
- Comprehensive activity logging and audit trails
- Replication to other Igneous systems for off-site redundancy
- Remote Service Router supports capacity in off-site/ colocation facilities

Archive Features:

- Automated archiving job management
- Archive data at the system, export, or directory level
- File Insights recommends files for archiving
- Automated notification upon job completion
- Archive to Igneous and cloud storage locations
- Mount archived data via read-only NFS/SMB
- Search to restore archived data via direct download, or restore to primary NAS
- Index archived data on ingest

Cloud Tiering Features:

- Lifecycle management across Igneous and cloud locations allows for expiration by date or number of versions
- Cloud storage services integration with Amazon Web Services, Microsoft Azure Blob Storage, and Google Cloud Platform
- Efficient data movement to cloud storage with object grouping
- Support for native file format storage in the cloud
- Replication between Igneous and cloud storage locations for off-site redundancy
- Search to instantaneous restore with enforced file permissions

About Igneous

Igneous delivers the first backup and archive solution for massive unstructured data. Designed for a hybrid world, Igneous' solution serves digital enterprises whose data is growing both on-premises and in cloud. Igneous streamlines data management, providing data protection, movement, learning, and search and discovery for enterprises with billions of files and petabytes of data on network attached storage. Delivered as-a-Service, Igneous brings the agility of cloud to customer datacenters. Igneous' customers include leading Fortune 500 and Global 2000 enterprises. Gartner recognized Igneous as a "Cool Vendor in Storage Technologies" in 2017.

Contact Igneous

To learn more about the Igneous backup and archive workflow, contact us:

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